PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: JOHN E. CARLSON
HOWARD & HOWARD ATTORNEYS, P.C.
1400 NORTH WOODWARD AVENUE
SUITE 101
BLOOMFIELD HILLS, MI 48304



NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

3 1 2 2 NOV 2000	OR THE DECLARATION		
PTO/PCT Roc'd 02 NOV 2000	(PCT Rule 44.1)		
· · · · · · · · · · · · · · · · · · ·	Date of Mailing (day/month/year) 24 AUG 1999		
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below		
60132-062	FOR FORTHER ACTION See paragrapus 1 and 4 below		
International application No.	International filing date (day/month/year)		
PCT/US99/16412	20 JULY 1999		
Applicant VIRTEK VISION CORPORATION			
1. X The applicant is hereby notified that the international	I search report has been established and is transmitted herewith.		
Filing of amendments and statement under Articl The applicant is entitled, if he so wishes, to amend t	e 19: the claims of the international application (see Rule 46):		
	ents is normally 20months from the date of transmittal of the more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35			
For more detailed instructions, see the notes on	the accompanying sheet.		
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect is transmitted herewith	search report will be established and that the declaration under		
	additional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.		
4. Further action(s): The applicant is reminded of the following	_		
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.			
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).			
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.			
Name and mailing address of the ISA/US	Authorized officer		
Commissioner of Patents and Trademarks Box PCT	JOHN LEE DICICALLIST		
Washington, D.C. 20231 Facsimile No. (703) 305-3230	Telephone No. (703) 308-0956		



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

ACTION (Form PC1/ISA/220)) as well as, where applicable, item 5 below.		
International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
20 JULY 1999	23 JULY 1998		
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report.			
unsearchable (See Box I).			
g (See Box II).			
ne text is approved as submitted by the applicance text has been established by this Authority			
ne text is approved as submitted by the applicate text has been established, according to Rule lox III. The applicant may, within one month for	38.2(b), by this Authority as it appears in rom the date of mailing of this international		
ublished with the abstract is: s suggested by the applicant. ecause the applicant failed to suggest a figure	None of the figures.		
	International filing date (day/month/year) 20 JULY 1999 In prepared by this International Searching Aug transmitted to the International Bureau. of a total of sheets. opy of each prior art document cited in this remarkable (See Box I). It (See Box II). contains disclosure of a nucleotide and/ored out on the basis of the sequence listing alled with the international application. The purple of the applicant separately from the going beyond the disclosure in the ranscribed by this Authority. The text is approved as submitted by the applicant text has been established by this Authority the text has been established by this Authority the text has been established, according to Rule lox III. The applicant may, within one month fearch report, submit comments to this Authority ablished with the abstract is: s suggested by the applicant.		

INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/16412

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

NEW ABSTRACT

A scanning laser microscope which can be used to scan biochips includes a transmitter, comprising lasers (12A-C), that emits an optical signal (14), a beam slitting mirror (20) having an opening (22), a reflector (36) which directs the optical signal (14) onto a specimen (90), a detector assembly, including detectors (42A-C), which detects a reflected optical signal (44) from the specimen (90), a first drive mechanism for varying the position of the optical signal (14) on the specimen (90), and a second drive mechanism for varying the position of the specimen (90) relative to the optical signal (14).

INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/16412

A. CLA	SSIFICATION OF SUBJECT MATTER		
(-)	:Please See Extra Sheet.		
	:250/234, 559.06, 482.4 to International Patent Classification (IPC) or to both	national classification and IPC	
	DS SEARCHED		
	locumentation searched (classification system followe	d by classification symbols)	
	250/234, 559.06, 482.4, 235, 236, 482.2 486.1; 43		
0.3	230/234, 339.00, 482.4, 233, 230, 402.2 400.1, 43	570, 7.1, 67.2, 522/2, 725/17	
Documentat NONE	tion searched other than minimum documentation to the	e extent that such documents are included	in the fields searched
Electronic of NONE	data base consulted during the international search (n	ame of data base and, where practicable	e, search terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		•
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
A,P	US 5,847,019 A (CONRAD ET AL) 08 December 1998 (08/12/98), 1-19 see entire document.		
A	US 5,736,257 A (CONRAD ET AL) 07 April 1998 (07/04/98), see entire document.		
	· ·		
			;
	·		
Furt	her documents are listed in the continuation of Box (C. See patent family annex.	·
·	pecial categories of cited documents:	"T" later document published after the int date and not in conflict with the app	
"A" document defining the general state of the art which is not considered the principle or theory underlying the invention to be of particular relevance			
"E" carlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive steep			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cann			ne claimed invention cannot be
•0• do	ocument referring to an oral disclosure, use, exhibition or other cans	considered to involve an inventive combined with one or more other suc being obvious to a person skilled in	step when the document is the documents, such combination
P document published prior to the international filing date but later than *&* document member of the same patent family the priority date claimed			nt family
Date of the actual completion of the international search Date of mailing of the international search report			earch report
16 AUGU	UST 1999	24 AUG 19	199
Commissio	mailing address of the ISA/US oner of Patents and Trademarks	24 AUG 19 Authorized officer Masa Cust)
_	on, D.C. 20231	M. JOHN CEE	
Ecosimile N	No. (703) 305-3330	Telephone No. (703) 308-0956	

INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/16412

A. CLASSIFICATION OF SUBJECT MATTER: IPC (6):	
H01J 3/14	
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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: JOHN E. CARLSON
HOWARD & HOWARD ATTORNEYS, P.C.
1400 NORTH WOODWARD AVENUE
SUITE 101
BLOOMFIELD HILLS, MI 48304

APR 2 1 2000 PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

19 APR 2000

Applicant's or agent's file reference

60132-062

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US99/16412

20 JULY 1999

23 JULY 1998

Applicant

VIRTEK VISION CORPORATION

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Afithorized officer

JOHN LEE

Telephone No.

Form PCT/IPEA/416 (July 1992) ★



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 60132-062	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month/year)		Priority date (day/month/year)
PCT/US99/16412	20 JULY 1999		23 JULY 1998
International Patent Classification (IPC) or national classification and IPC IPC(7): H01J 3/14 and US Cl.: 250/234, 559.06, 482.4			
Applicant VIRTEK VISION CORPORATION			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of 3 sheets. 			
		ta af tha daga	mintion claims and/or drawings which have
been amended and are the	panied by ANNEXES, i.e., snee e basis for this report and/or she tion 607 of the Administrative	ets containin	ription, claims and/or drawings which have g rectifications made before this Authority. under the PCT).
These annexes consist of a to	stal of sheets.		
3. This report contains indication	s relating to the following its	ems:	
I X Basis of the repor	rt		
II Priority			
III Non-establishment of report with regard to novelty, inventive step or industrial applicability			
IV Lack of unity of invention			
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain documents	VI Certain documents cited		
VII Certain defects in the international application			
VIII Certain observations on the international application			
	-		~-
Date of submission of the demand	Date	of completion	of this report
10 FEBRUARY 2000		APRIL 200	0
Name and mailing address of the IPEA/US		rized officer	
Commissioner of Patents and Traden Box PCT	Ιν.	OHN LEE	-6 dh
Washington, D.C. 20231	IV .	(UX VIII
Facsimile No. (703) 305-3230 Telephone No. (703) 308-0956 Form PCT/IPEA/409 (cover sheet) (July 1998) *			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application	No
	-pp.	• • •

PCT/US99/16412

I.	Basis of the	he report			
1 '	With regard to	o the elements of the interna	ational application:*		
· ·		ernational application as			
1	<u></u>	cription:			
ı	pages _	•	, as originally filed		
		NONE	, filed with the demand		
	pages_	NONE	, filed with the letter of		
_					
	X the cla				
	pages _		, as originally filed		
	pages		, as amended (together with any statement) under Article 19		
	pages _ pages _		, filed with the letter of		
	pages _		, filed with the letter of		
ſ	X the dra	wings:			
L	pages		, as originally filed		
	pages _	NONE	, filed with the demand		
	pages	NONE	, filed with the letter of		
_	`				
L		uence listing part of the			
٠.			, as originally filed , filed with the demand		
	pages	NONE	, filed with the letter of		
	pages _	NOND	, filed with the letter of		
[the lang	guage of publication of	the international application (under Rule 48.3(b)). the international application (under Rule 48.3(b)). nished for the purposes of international preliminary examination (under Rules 55.2 and/		
3.	With regard	l to any nucleotide and/o	r amino acid sequence disclosed in the international application, the international dout on the basis of the sequence listing:		
	contained in the international application in printed form.				
ı	filed to	gether with the internat	ional application in computer readable form.		
į	furnished subsequently to this Authority in written form.				
Ī	furnished subsequently to this Authority in computer readable form.				
. [The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
1	The statement that the information recorded in computer readable form is identical to the writen sequence listing has been furnished.				
4.	4. X The amendments have resulted in the cancellation of:				
	X the description, pages NONE				
	Γ⊽I	he claims, Nos.	NONE		
		he drawings, sheets/fig	NONE		
5.	This re	port has been drawn as if (some of) the amendments had not been made, since they have been considered to go		
beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to					
	in this repor and 70.17).	t as "originally filed" and	are not annexed to this report since they do not contain amendments (Rules 70.16		
*	*Any replace	ment sheet containing such	n amendments must be referred to under item 1 and annexed to this report.		



'INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/16412

v.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	1. statement				
	Novelty (N)	Claims Claims	1-19 NONE	_ YES _ NO	
	Inventive Step (IS)	Claims Claims	1-19 NONE	_ YES _ NO	
	Industrial Applicability (IA)	Claims Claims	1-19 NONE	_ YES _ NO	
2.	 citations and explanations (Rule 70.7) Claims 1-15 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an optical instrument comprising, in addition to the other recited features and elements, the first and second drive mechanisms functioning as claimed. Claims 16-19 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method of scanning comprising, in addition to the other recited features and steps, the step of translating a sample in a third direction as claimed. Claims 1-19 meet the criteria set out in PCT Article 33(4), because the invention can be made or used in industry. 				
	NEW CITATIONSNONE		·	•	
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PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 11 April 2000 (11.04.00)	in its capacity as elected Office
	Applicant's or agent's file reference
International application No. PCT/US99/16412	60132-062
International filing date (day/month/year) 20 July 1999 (20.07.99)	Priority date (day/month/year) 23 July 1998 (23.07.98)
Applicant	
DEWEERD, Herman et al	
in a notice effecting later election filed with the Inte	ry Examining Authority on: 2000 (10.02.00)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Claudio Borton

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35